

Minutes

(added to Agenda in orange font)

April 14, 2016

6:30pm

County Government Building – Meeting Room AB

<u>Present</u>: Van Armacost, Bryan Conrad, Frank Davis, Matt Hoff, Beth Leffel (Chair), Tony Roper, Laure Wallace, David Weiss

Meeting was called to order by the Chair at 6:30pm.

- 1. Approval of Agenda
 Motion for approval by Ms. Wallace; second by Mr. Hoff. Unanimous vote to approve.
- 2. Approval of Minutes February 29, 2016 and March 10, 2016

 Motion for approval of February 29th minutes by Mr. Hoff; second by Mr. Armacost. Unanimous vote to approve. Motion for approval of March 10th minutes by Mr. Hoff; second by Ms. Wallace. Unanimous vote to approve.
- 3. Administrative no items for discussion
- 4. Presentation from Omnicom (Technology Committee)

Mr. Chris Monzingo of Omnicom Consulting Group presented the draft report entitled, "Gap Analysis and Recommendations Report". Questions were answered from Commissioners and then the floor was opened for questions from any member of the public. (Attachment 1 – Presentation)

- a. Action Item Mr. Monzingo was requested to write a cost analysis for the two scenarios and present it at the next Technology Committee meeting. Sheriff Roper will report the outcome and committee recommendation(s) at the Commission meeting on June 9, 2016.
- 5. Unfinished Business
 - a. Budget estimates for Strategic Plan priorities
 - b. 2016 Annual Operating Plan (AOP) draft

A draft AOP (Attachment 2) was circulated but not discussed due to the late hour. The items were selected based on priorities identified by the Commission and the FY17 budget request. Ms. Wallace volunteered to compare the additional budget estimates provided by Mr. Davis and the priority document to identify any additional needs that could be addressed in FY17 without incurring cost.

6. Report from the Director of Fire and EMS (Frank Davis) – Attachment 3



Clarke County Fire & EMS Commission 101 Chalmers Court, Suite B Berryville, Virginia 22611 (540) 955-5132

- 7. Report from the Fire and Rescue Association Representatives (Matt Hoff and Van Armacost) no report
- 8. Committee Reports
 - a. Performance Standards (Beth Leffel) no report
 - b. Technology Committee (Tony Roper) no report
 - c. Budget Committee (Matt Hoff) no report

9. New Business

Town of Berryville Budget: there is grave concern about the impact of the Town withdrawing financial support (~\$70,000) for a full-time paramedic stationed at Company 1. The Chair was tasked to speak at the next finance committee meeting, if there was one, prior to the final vote on the budget. [After meeting note: there was not a meeting, no action to report.]

10. Adjourn

Motion to adjourn at 7:42pm by Sheriff Roper; second by Ms. Wallace. Unanimous vote for approval.

The next regular Commission meeting is scheduled for April 28, 2016 at 6:30pm.



Attachment 1: Omnicom Presentation



Gap Analysis and Recommendations

Report Presentation

for

E911 Communications Consulting





Introductions

- Chris Monzingo, P.E., PMP
- Project Manager, with 22 years of professional experience



Agenda

- Introductions
- **Project Overview**
- Scope and Tasks Review
- **OCG Deliverables**
- Stakeholder Interviews
- Site Surveys
- **Current VHF System**
- **Proposed System Improvements**
- **Budgetary Costs Estimates for System Improvements**
- Q/A





Project Overview

Phase 1: Operational / Functional Needs Analysis

- OCG will work with the Clarke County Sheriff's Department and E911 communication, dispatching and radio operation equipment. Department to identify and analyze all of the departments
- OCG will create a gap analysis of existing system compared to required and recommended systems, and provide a cost estimate for the County budgeting process
- required backbone changes/upgrades owned property. The analysis will detail any changes in coverage plus current tower lease versus moving to a new lease site or other County OCG will analyze and make recommendations regarding the County's
- OCG will analyze and make recommendations regarding the County adding an additional communication site at the Millwood Water Tank. backbone changes/upgrades. The analysis will detail any changes in coverage plus required



Scope of Work and Tasks Review

- Task 1: Kickoff Meeting and Technology Review
- Department Interviews
- Dispatch and Communication Site Surveys
- Task 2: Review System Architecture and Backhaul Configuration
- Task 3: Develop Radio Coverage Prediction Maps
- Task 4: Develop Radio System, Backhaul and System Drawings
- Maintenance and Operational Costs for a 15-year System Life Cycle Task 5: Develop System Implementation Costs, Estimated
- Task 6: Develop Gap Analysis and Recommendations Report



OCG Deliverables

- Phase 1: Operational / Functional Needs Analysis
- Gap Analysis and Recommendations Report
- Presentation of Report to County Stakeholder Group



Clarke County Stakeholder Interviews

- Clarke County Sheriff's Office
- Pam Hess, Communications Director, Travis Sumption, Chief Deputy, Sheriff Tony Roper
- John H. Enders Fire Company
- Harold Rohde, Chief , Jay Arnold
- Boyce Volunteer Fire Company
- Matt Hoff, Bryan Conrad
- Blue Ridge Volunteer Fire Company
- Jason Burns, Chief, Mike
- Town of Berryville Police Department
- Neal White, Chief of Police
- Clarke County Fire EMS Director
- Frank Davis, Director Clarke County Fire EMS





Clarke County Stakeholder Interviews

Common Topics with High Levels of Interest:

- The need for reliable portable radio coverage throughout their jurisdictional area
- operations The need for an additional repeater channel for tactical
- The need for interoperability across frequency bands and communication system technologies
- The need for improved more reliable site connectivity
- nearing their end of life of manufacturer's support The need to replace system components that are at or

Clarke County Site Surveys

Springsbury Road

- Main Transmit/Receive Site
- 0 High lease fees for both tower space and site connectivity

Dispatch

0 Existing tower structure will likely have to be replaced to support a new microwave backhaul connectivity network

Millwood Water Tank

- 0 New water tank the County can possibly utilize to improve system coverage
- 0 The County has reserved space for both antennas and system equipment

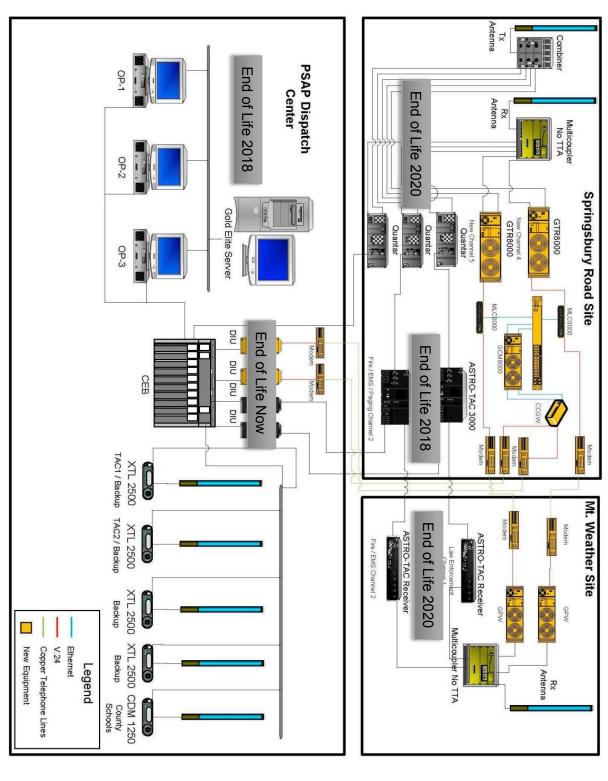
Shentel Tower

- 0 The County has "free" space available on the tower for antennas
- Site improvements could be a substantial investment



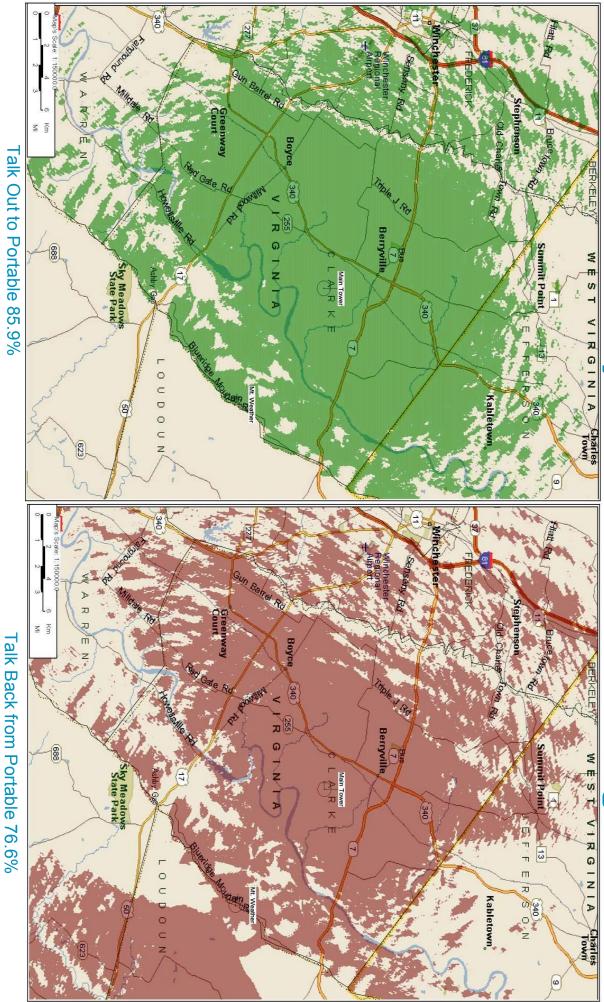


Current VHF Radio System





Current System Radio Coverage



Proposed System Improvements

OCG has proposed the following system improvements

- Two-Site Simulcast Transmit, Three-Site Receive
- (4) P25 Digital Voice Channels
- (1) Analog Paging Channel
- New Licensed 6GHz Microwave for Backhaul Connectivity
- New P25 Conventional Core and Simulcast Control Equipment
- New Dispatch Consoles

Site Option 1:

- Shentel Tower for Transmit and Receive
- Millwood Water Tank for Transmit and Receive

Site Option 2:

- Shentel Tower for Transmit and Receive
- Double Toll Tower (New Greenfield Tower) for Transmit and Receive

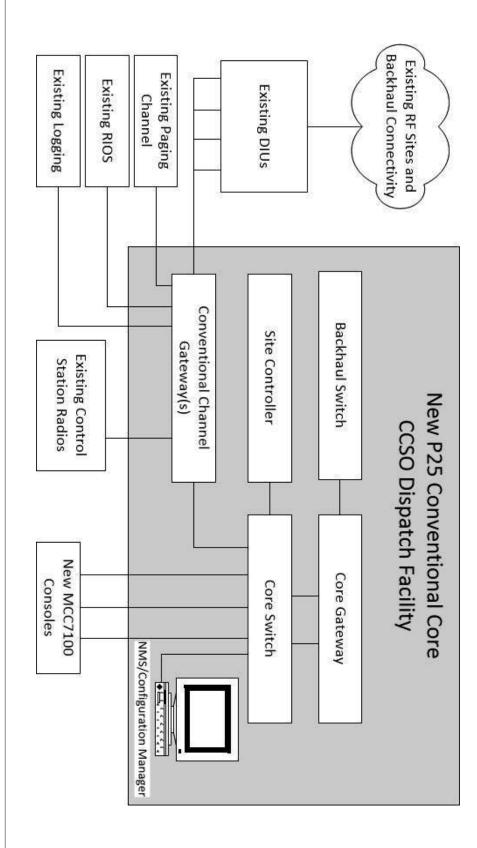




Proposed System Improvements

Phased Migration Approach:

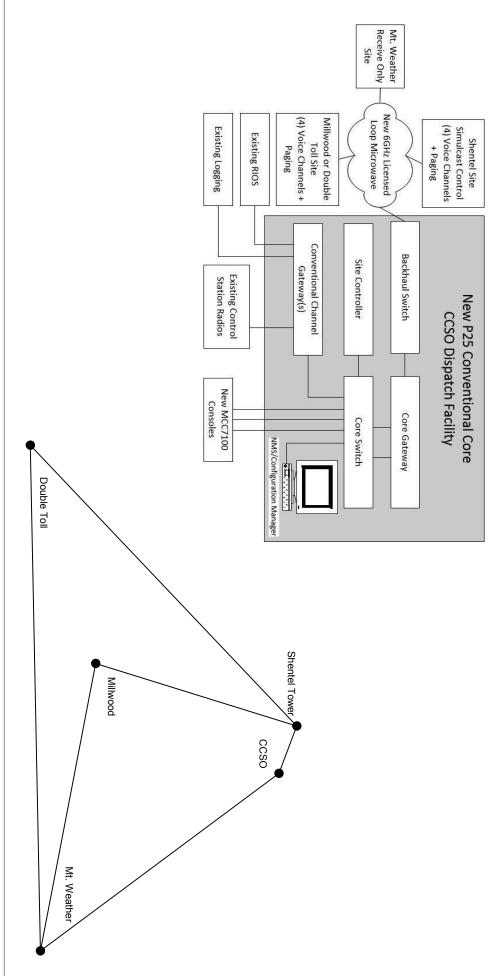
Dispatch Upgrade and P25 Conventional Core Implementation



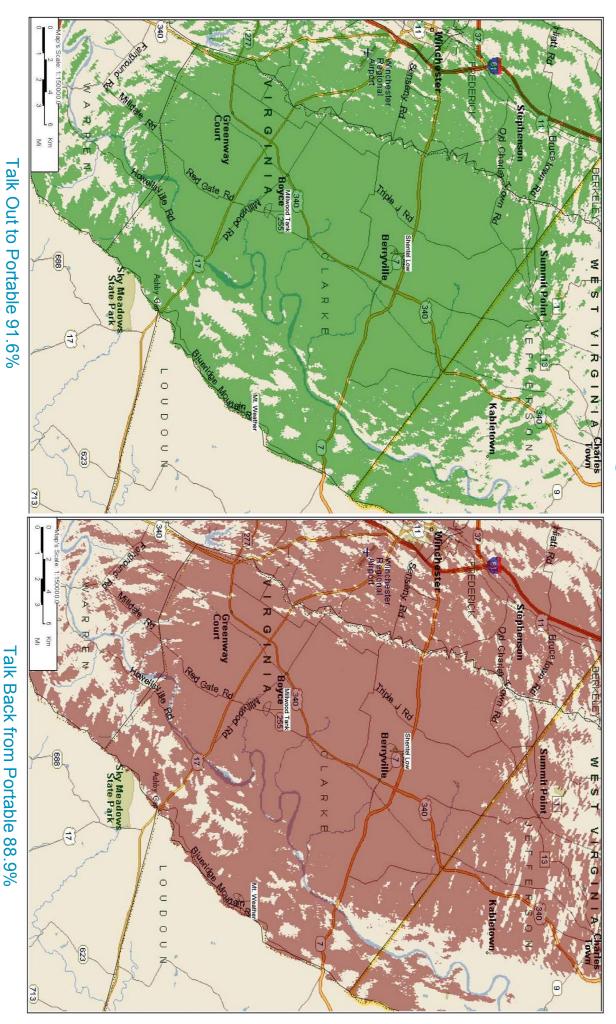


Proposed System Improvements

- Phased Migration Approach:
- Simulcast System and 6GHz Licensed Microwave Implementation

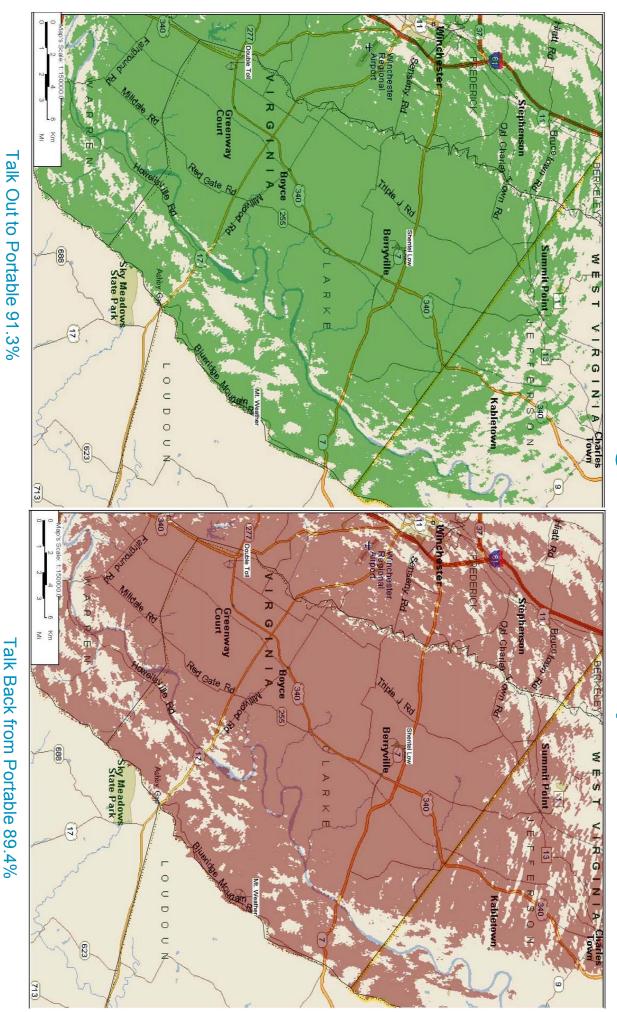


Radio Coverage for Site Option 1





Radio Coverage for Site Option 2





Clarke County, VA E911 Communications Consulting



1,944,764.68		↔	Total Cost of Ownership System Infrastructure and Dispatch for 15 years:
769,862.66		Refreshes Years 2-15:	Total System Maintenance Including Technology Refreshes Years 2-15:
27,500.00		49	Technology Refresh Year 11
25,000.00		&	Technology Refresh Year 5
717,362.66		years 2-15 \$	System Maintenance Infrastructure and Dispatch years 2-15
		On-going Maintenance Costs	On-goin
\$ 1,174,902.02	ر (TOTAL SYSTEM INFRASTRUCURE AND DISPATCH:	TOTAL SYSTEM
\$ 222,246.22	6	Total Project Management, Engineering and Implementation:	Total Project Managemen
\$ 44,449.24	6	Total Contingency:	
\$ 14,221.70	↔	Total Recommended Spares:	
\$ 5,000.00	↔	Total System Training:	
\$ 74,121.60	↔	Total Microwave Network Equipment:	7
\$ 50,743.26	€	Total Antenna Network Equipment:	
\$ 298,220.00	€	Total Remote Site Equipment:	
\$ 177,900.00	€	Total Communications Site Development:	Total
\$ 80,000.00	€	Total Dispatch Equipment:	
\$ 208,000.00	€	Total Control Equipment:	
lons	osii	1-Channel Analog Paging, Three Dispatch Positons	Two-Site, Four-Channel Simulcast and 1-Channel Analog Paging, Three D
			Prepared By: Omnicom Consulting Group, Inc.
			Date Prepared : March 28, 2016
		Engineer's Budgetary Cost Estimate	Engineer's B





2,639,094.67	€9	Total Cost of Ownership System Infrastructure and Dispatch for 15 years:
769,862.66	e.	l otal System Maintenance including Technology Herreshes Years 2-15:
27,500.00	6	Technology Refresh Year 11
25,000.00	S	Technology Refresh Year 5
717,362.66	8	System Maintenance Infrastructure and Dispatch years 2-15
		Ongoing Maintenance Costs
\$ 1,869,232.01		TOTAL SYSTEM INFRASTRUCURE AND DISPATCH:
\$ 355,771.21		Total Project Management, Engineering and Implementation:
\$ 71,154.24		Total Contingency:
\$ 14,221.70		Total Recommended Spare:
\$ 5,000.00		Total System Training:
\$ 74,121.60		Total Microwave Network Equipment:
\$ 50,743.26		Total Antenna Network Equipment:
\$ 298,220.00		Total Remote Site Equipment:
\$ 712,000.00		Total Communications Site Development:
\$ 80,000.00		Total Dispatch Equipment:
\$ 208,000.00		Total Control Equipment:
ispatch Positons	sh Pc	Two-Site, Four-Channel Simulcast and 1-Channel Analog Paging, Three Dispat
		Prepared By: Omnicom Consulting Group, Inc.
		Date Prepared : March 28, 2016
		Engineer's Budgetary Cost Estimate





Budgetary Cost Estimate Phased Migration

	Recommended System Improvements Option 1	
Phase Number	Phase Description	Approximate Costs
1	Implement a new P25 conventional core and dispatch consoles	\$374,816.00
2a	Infrastructure improvements and buildout of two simulcast sites	\$673,395.00
2b	Implement a new FCC-licensed 6 GHz microwave backhaul network	\$107,470.00
2c	Equipment spares and system training	\$19,221.00

	2b Implement a new FC	2a Infrastructure improv	1 Implement a new P2	Phase Number	Recom
Equipment energe and system training	Implement a new FCC-licensed 6 GHz microwave backhaul network	Infrastructure improvements and buildout of two simulcast sites	Implement a new P25 conventional core and dispatch consoles	Phase Description	Recommended System Improvements Option 2
e10 331 00	\$107,470.00	\$1,367,724.00	\$374,816.00	Approximate Costs	





QUESTIONS?





Attachment 2: Annual Operating Plan – Working Paper



2016-2017 PROJECT PRIORITIES – Fire & EMS COMMISSION (adopted DATE)

The list is intended to aid the Commission and Staff to ensure that work on critical projects is ranked and completed in a timely fashion. Projects are aligned with Goals 1 and 2 of the Strategic Plan which have been prioritized by the Commission. Project start dates and priorities may be affected by the Department's budget, Commission's case load, text amendments, or other special projects requested by the Board of Supervisors.

- 1. Progress the strategic vision and leadership of the Department by:
 - a. Fund and support the position of Director of Clarke County Fire and EMS
 - b. Fund and support the position of Fire & EMS Billing Coordinator
 - c. Provide effective and regular communications throughout the organization by expand the Department website and maintaining it routinely to ensure information is timely and accurate
- 2. Improve Fire and Operations across the Department by unifying the system and ensuring that sufficient staff is available to meet the needs of the community:
 - a. Purchase a county-wide Facility and Apparatus Insurance Policy which includes equivalent coverage for all volunteer companies and County investments
 - b. Provide standardized uniforms and safety equipment (e.g., turnout gear) for personnel
 - c. Implement IAMRESPONDING technology and utilize with 100% of volunteers by June 30, 2017
 - d. Develop a Paramedic-in-the-Community program by having at least two volunteer paramedics participating by June 30, 2017



Attachment 3: Director's Report

Directors Report

- Annual All—Hands meetings was held April 2, 2016 with 35 Fire/EMS personnel in attendance.
- Working on new Mutual Aid Agreements with surrounding jurisdictions
- Kick-off meeting on April19th with FEMA in regards to reimbursement for snow storm expenditures.
- Regional Training Center is progressing with hopes of beginning construction in August.
- Starting the first Friday and Saturday in May the career staff will be at the County Park and Food Lion conducting Blood Pressure checks and distributing Fire Safety literature. This will continue until October after Fire Prevention Week.
- Attending meetings with the City of Winchester and Frederick County for planning of a major regional training drill in September. All volunteer departments will be participating.



Division of Fire and Rescue Services

Response Review Report

March 1, 2016 – March 31, 2016

	AM	PM	W _K	Total	AM Fail	PM Fail	WK Fail	Total Fail	AM	PM	WK	Total
Station	Count	Count	Count	Count	Count	Count	Count	Count	Pct.	Pct.	Pct.	Pct.
Enders-Fire	17	11	5	33	4	2	1	7	23.5%	18.2%	20%	21.2%
Enders-EMS	52	37	23	112	1	1	1	3			4.3%	2.7%
Boyce-Fire	8	6	2	16	1	1	0	2			0%	12.5%
Boyce-EMS	24	6	11	41	2	ר	1	4			9.1%	9.6%
Blue Ridge-Fire	10	3	5	18	3	1	1	5			20%	27.8%
Blue Ridge-EMS	12	6	5	23	2	0	3	5	16.7%	0%	60%	21.7%